

ENTRANCE TEST (2024) MDCAT FLP # 6 BIOLOGY

Q.1	It is the master control centre of the endocrine	system:
U	A) Thalamus	C) Pons
	B) Hypothalamus	D) Cerebrum
Q.2	All insectivores plants are:	A CARLON CONTRACTOR
~	A) True autotrophs	C) False autotrophs
	D) True heterotrophs	D) True parasites
Q.3	The pressure receptors that receive deep press	ure stimulus in human body are called:
Q.3	A) Meissner corpuscles	C) Red blood corpuscles
*	B) Pacinian corpuscles	D) White blood corpuscles
04	Enzymes taking part in synthesis of protein are	
Q.4	A) Mitochondrion	C) Ribosome
	B) Chloroplast	D) Nucleolus
0.5	Smooth muscles are innervated by:	D) Nucleon
Q.5		C) Somatic nervous system
	A) Central nervous system	D) Autonomic nervous system
0.0	B) Peripheral nervous system	D) Autonomic nervous system
Q.6	Oviduct in female opens into:	(I) Following tube
	A) Cervix	C) Fallopian tube
~ =	B) Oviduct	D) Uterus
Q.7	Which hormone is responsible for promoting n	nuk production in the manimary grands
	during breastfeeding?	
	A) Estrogen	C) Oxytocin
	B) Progesterone	D) Prolactin
Q.8	Pick up non-allelic recessive sex-linked trait:	
	A) Diabetes mellitus	C) Hypophosphatemia
	B) Vitamin-D resistant rickets	D) Haemophilia A and B
Q.9	Pick up the primary function of myelin sheath:	
	A) Deactivate the release of neurotransmitter	C) Increase in size of action potential
	B) Regulate Na ⁺ – K ⁺ pumps	D) Increase in speed of conduction
Q.10	Constipation is caused by the excessive absorpt	
	A) Water	C) Oxygen
	B) Waste	D) Food
Q.11	During sliding of actin filaments, ATP is used f	or?
	A) Cross bridge formation	C) Dragging filaments
	B) Cross bridge breaking	D) Shortening of filaments
Q.12	Some insects eat up dead animals and vegetable	e matter and are called:
	A) Scavengers	C) Predators
	B) Vectors	D) Pathogens
Q.13	The process of spermatogenesis (formation of	sperm) takes place in which part of male
_	reproductive system?	
	A) Urethra	C) Oviduct
	B) Epididymis	D) Seminiferous tubules
Q.14	The complete, mature and infectious particle is	known as:
C	A) Prion	C) Virion
	B) Bacteria	D) Viroid
Q.15	T tubule and sarcoplasmic reticulum forms:	b) viiola
Q.10	A) Muscle fiber	C) Triad
	B) T system	D) Z disc
Q.16	Descending aorta is bifurcated into two vessel	D) Z (IISC
Q.10	artery that supply blood to high muscles of legs	is which on turther division from femoral
	A) Iliac vein	The second secon
-	B) Iliac artery	C) Temporal artery
0.17		D) Sciatic artery
Q.17	Chondrocytes in cartilage are surrounded by n	
	A) Muscle	C) Ligaments
	B) Osteocytes	D) Collagan





Q.18	If a cofactor is covalently bound to the protein p	part, it is known as:
	A) Coenzyme	C) Apoenzyme
	B) Prosthetic group	D) Activator
Q.19	Insulin is antagonist to:	at alicen
	A) ADH	C) Cortisol
10	B) Aldosterone	D) Thyroxin
Q.20	Which of the following chemicals is used to pres	serve biological specimens?
	A) Formalin	C) Ethylene oxide
	B) Glutaraldehyde	D) Iodine
Q.21	The raw material that is used by natural selection	on for better survival is/are:
	A) Variation only	C) Similarity only
-	B) Mutation only	D) Variation and mutation
Q.22	The lymph serves to:	
	A) Transport CO ₂ to the lungs	C) Return the interstitial fluid to the blood
	B) Transport O ₂ to the heart	D) Return the WBCs and RBCs to the blood
Q.23	Which of the following is the main point of Darv	
	A) Over production	C) Disuse of organ
	B) Variation	D) Perceived unity of life
Q.24	The red ribbon is a symbol for solidarity with:	
	A) Cancer patients	C) Hepatitis patients
	B) AIDS patients	D) Diabetes patients
Q.25	Red green colour blindness is a recessive sex lin	ked trait that renders individuals unable
-	to distinguish shades of red or green and both a	ppear as:
	A) Red	C) Gray
	B) Green	D) Yellow
Q.26	Salivary amylase works best at pH:	
	A) 2:00	C) 9:00
	B) 6:80	D) 9.70
Q.27	Only those genes can assort independently whos	e loci are on:
	A) Same chromatids	C) Non-homologous chromosomes
	B) Same chromosomes	D) Homologous chromosomes
Q.28	Pick up common character in dihyoxyacetone an	nd fructose?
	A) Number of carbon atoms	C) Aldehyde group
	B) Number of OH groups	D) Ketonic group
Q.29	Sertoli cells are present in:	G) Saminiferana tabular
	A) Epididymis	C) Seminiferous tubules D) Potrycon follogo
	B) Seminal vesicles	D) Between follicles
Q.30	Cell wall is absent in:	C) Root hair cell
	A) Cortex cell	D) Protoplast
0.44	B) Phloem cell	D) Flotopiast
Q.31	Phenotype is: A) The genetic complement i.e. the genes in an ind	ividual for a particular trait
		rviduai for a particulai trait
9	B) Partner of gene pair C) The form of appearance of a trait	
	D) The position of a gene on the chromosome	
Q.32	A female can be hemophiliac, if her parents have	e following genotyne:
Q.32	A) X ^H X ^H X X ^H Y	$C) X^{H}X^{h} X X^{h}Y$
	B) X ^H X ^H X X ^h Y	$D) X^{H}X^{h} X X^{H}Y$
Q.33		
Q.33	A) Progesterone	C) Estrogen
	B) LH	D) FSH
Q.34		
Q.0.	molecules from the output of Calvin cycle is resp	pectively:
	A) 3, 6, 9	C) 12, 24, 36
	B) 6, 12, 18	D) 24, 48, 72
Q.35	The chloroplasts contain:	∞
-	A) Proteins only	
	B) Ribosomes only	
	C) Small circular DNA only	
	D) Proteins, Ribosomes and small circular DNA	



Q.36		
	A) Migration	C) Natural selection D) Mutation
0.37	B) Inheritance of acquired characteristics Cell wall of prokaryotic cell is composed of:	D) Mutation
Q.37	A) Carbohydrates	C) Proteins
79	B) Carbohydrates and proteins	D) Proteins and lipids
0.38	Which is the correct sequence of stages of the	
2.00	A) Follicular phase →ovulation → menstruation	
	B) Follicular phase →ovulation → luteal phase →	
_	C) Follicular phase → luteal phase → menstruati	
	D) Menstruation → luteal phase → ovulation → for	
Q.39	The end or complete stop of the menstrual cyc	
	A) Menstruation	C) Menopause
	B) Menarche	D) Conception
Q.40	The average adult human has a lung capacity	of approximately:
v T	A) 2 liters	C) 9 liters
	B) 5 liters	D) 12 liters
Q.41	is found in the exoskeleton of crabs:	
	A) Cellulose	C) Murein
	B) Chitin	D) Hemi-cellulose
Q.42	Inhibitor which binds tightly and permane	ently to enzyme and destroys its globular
	structure and catalytic site is called:	ON N.
	A) Competitive inhibitor	C) Non-competitive inhibitor
	B) Reversible inhibitor	D) Irreversible inhibitor
Q.43		al is called:
	A) Endocytosis	C) Exocytosis D) Pinocytosis
0.44	B) Phagocytosis	
Q.44	Saliva is basically composed of water, mucus,	C) Sodium chloride
	A) Sodium hydroxide B) Sodium bicarbonate	D) Sodium sulphate
0.45	The plasma membrane of muscle fibre is calle	
Q.45	A) Sarcoplasmic reticulum	C) Sarcolemma
	B) Sarcomere	D) Plasmalemma
Q.46	Killing bacteria by some physical agent is call	
Q.40	A) Sterilization	C) Disinfection
	B) Antisepsis	D) Chemotherapy
Q.47	Mitochondria was first seen as granules in:	12
2	A) White Blood cells	C) Muscle cells
	B) Red blood cells	D) Liver cells
Q.48	The genetic material of HIV consists of:	* *
	A) Two identical strands of DNA	C) Two non-identical strands of DNA
	B) Two identical strands of RNA	D) Two non-identical strands of RNA
Q.49	The major enzymes involved in transfer of ph	
5 55 0	A) Isomerase	C) Kinase
	B) Dehydrogenase	D) Decarboxylase
Q.50	The lipids that do not contain fatty acids are:	Service Manager and Code Control of the
	A) Waxes	C) Triglycerides
	B) Phospholipids	D) Steroids
Q.51	The conjugated molecule that is primarily pr	
	A) Lipoprotein	C) Glycolipid
	B) Nucleoprotein	D) Glycoprotein
Q.52	The companion cell and sieve tube are in com	munication with each other by:
	A) Gap junction	C) Lenticels
	B) Plasmodesmata	D) Pits
Q.53	Which one of the following affects the gene fr	equency of small populations?
	A) Reproductive isolation	C) Genetic recombination
	B) Natural selection	D) Genetic drift
Q.54	In human heart, the left atrium receives:	G) El
	A) The superior vena cava	C) The coronary sinus
	B) The inferior vena cava	D) The four pulmonary veins





Q.55	Which is the m	ajor event in electron trans	port chain?	/*
	A) ATP synthes:		C) Substitution	
	B) Decarboxylat	ion	D) Isomerisation	<i>7</i> 6
Q.56		is the proton (H ⁺) pumps m	oves from:	
	A) Stroma to lur	nen	C) Lumen to stron	na
	B) Stroma to cyt	oplasm	D) Cytoplasm to s	stroma
Q.57		of biological information is:		V
	A) Gene		C) DNA	
	B) Chromosome		D) RNA	
Q.58	Which one of th	ie followings also known as	primary photosynthetic	pigment?
	A) Chlorophyll a	1	C) Carotenoid	
	B) Chlorophyll t		D) Xanthophyll	
Q.59		ium is present in all of the f	ollowing, EXCEPT:	**************************************
	A) Trachea	•	C) Bronchi	
	B) Bronchoules	th (6)	D) Alveoli	
Q.60	Mammals becom	me dominant in:	-/12/0012	
	A) Cenozoic per	iod	C) Mesozoic perio	hd
	B) Jurassic perio		D) Paleozoic perio	
Q.61		llowing is used in baking?	_, 1 modest point	201
	A) Aerobic respi	ration	C) External respira	ation
	B) Anaerobic res	spiration	D) Internal respira	
Q.62		ge polysaccharide in animal	s:	
	A) Chitin		C) Glycogen	
	B) Cellulose		D) Starch	
Q.63		formed to determine the ge		
1	A) F ₁ generation		C) P ₁ generation	
	B) F ₂ generation		D) F ₃ generation	
Q.64		not obey Mendel's law of in	ndependent assortment	called:
10-10-10-10-10-10-10-10-10-10-10-10-10-1	A) Multiple allel	es	C) Jumping genes	
•	B) Linked genes		D) Mobil genes	
Q.65		itis means inflammation of		
	A) Pancreas		C) Spleen	8 5
0.00	B) Liver		D) Gall bladder	
Q.66		cids are converted into gluc	cose, by a process called	•
· .	A) Glycogenesis		C) Gluconeogenes	
	B) Glycolysis		D) Glycogenolysis	
Q.67		taying together of all the ge	nes of a chromosome ca	lled:
	A) Variation		C) Linkage	
	B) Crossing over		D) Recombination	
Q.68	The opening of			ar a contract of
	A) Nostril		C) Glottis	
	B) Nares		D) Epiglottis	
		CHEMI	SIRY	
Q.69	Match column	A (compound) with column	R (isomer) and nick the	commont was 4.1.1.
2.02	the given codes:	1 (compounts) with column	2 (isomer) and pick the	correct matching from
	the given coues.	Column A (Compound)	Column D (Inc.)	**
			Column B (Isomer)	
	•	A) 1-Chloropropane	W) Propanal	
60		B) Methoxymethane	X) trans-2-Butene	
		C) Propanone	Y) 2-Chloropropane	
	5	D) cis-2-Butene	Z) Ethanol	
20	A) A-W, B-Y, C	–Z, D–X	C) A-Y, B-Z, C-Y	W D_Y
	B) A-Y, B-Z, C-	-X. D-W	D) A-7, B-W C-	VDV
Q.70	Petroleum main	y contains saturated hydro	carbons. Which of the	following for 4
and the second	of petroleum cor	tains alkanes in the range	of C12H26-C12H22	onowing tractions
	A) Gasoline			
	B) Kerosene		C) Gas oil	×
	-/ 1201000110	***	D) Paraffin	2)



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Q.71 Comparison of the properties of electrophile and nucleophile are given in the tabular form.

Mark the incorrect statement about them:

Opt.	Electrophiles	Nucleophiles
A)	Are those species which are deficient in	Are those species which are rich in electrons
	electrons	
B)	They are only positively charged	They are only negatively charged
(C)	They undergo electrophilic addition and electrophilic substitution reactions	nucleophilic substitution reactions
(D)	It accepts a pair of an electron to form a covalent bond	It donates a pair of an electron to form a covalent bond

Q.72	1,2-Dibromoethane	on	treatment	with	Zn	dust	gives:	
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A) Alkyne

C) Alkane

B) Alkene

D) All of the above

Q.73 An aqueous solution of compound Q is weakly acidic. When an alkaline solution of Q is shaken with benzoyl chloride, a solid derivative is obtained.

What could O be?

A) C₆H₅CO₂H

C) C₆H₅CH₂OH

B) C₆H₅OH

D) C₆H₅NH₂

Q.74 Comparison of properties of 2,4-directing groups and 3,5-directing groups are given in the tabular form, when they are present in the mono-substituted benzene ring.

Mark the incorrect statement about them:

Opt.	2,4-Directing groups (o-,p-Directing group)	3,5-Directing groups (m-Directing group)
A)	They are electron donating groups	They are electron withdrawing groups
B)	They increase reactivity of benzene	They decrease reactivity of benzene
`C)	They have lone pair of electrons at the central atom except alkyl group	They have multiple bonds
D)	e.g. –N(CH ₃) ₂ , –NH ₂ , –OH, –COR, –Cl, –Br, I	e.g. $-N^+R_3$, $-C \equiv N$, $-COOH$, $-CHO$, $-$ OCH ₃

- Q.75 Consider the following statements about Cannizzaro's reaction:
 - I. Aldehydes which do not have α-hydrogen give this reaction
 - II. It takes place in the presence of 40% NaOH solution
 - III. It is self-oxidation reduction.
 - IV. In this reaction one molecule of aldehyde is reduced to an alcohol and other is oxidized to carboxylic acid in the salt form.

Which of the above given statements is incorrect?

A) I only

C) III and IV only

B) II only

D) I, II, III and IV

Q.76 In which compound is the carbon-halogen bond hydrolyzed most readily by aqueous sodium hydroxide?

A) CH₃CH₂F

C) CH₃CH₂Cl

B) CH₃COBr

D) C₆H₅Br

Q.77 By convention a peptide having molecular mass up to 10,000 is called:

A) Peptide

C) Protein

B) Polypeptide

D) Dipeptide

Q.78 The process of heat flow between hotter and colder gases remains continued until all the molecules have equal:

A) Average translational kinetic energy

C) Average translational potential energy

B) Average rotational kinetic energy

D) Average vibrational kinetic energy

Q.79 The gecko, a small lizard, can climb up a smooth glass window. The gecko has millions of microscopic hairs on its toes and each hair has thousands of pads at its tip. The result is that the molecules in the pads are extremely close to the glass surface on which the gecko is climbing. What is the attraction between the gecko's toe pads and the glass surface?

A) Co-ordinate bonds

C) Ionic bonds

B) van der Waal's forces

D) Covalent bonds



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Opt.	_	T	and antalwain		TT _4	come cotalizate
			ous catalysis			eous catalysis
A:)			the catalyst		In this process, the c	(100 School Marie 1971 - 200 S
			nt in the same pl	nase.	present in different pl	
B)		ve high act			They have low activity	
C)			icult to recycle.	. 1	Readily regenerated a	
D)_		paration is			Their separation is di	
		pairs and	two bond pairs	s are a	round the central ato	om, decrease in the
	is up to		N 7			
A) 109					C) 102°	2 10 10 10 10 10 10 10 10 10 10 10 10 10
B) 104		•			_D) 107.5°	in the second
	nit of k ir	n first orde	r reaction is:			
A) s ⁻¹					C) moles dm ⁻³	60 GG
	.es dm ⁻³ s				D) mol ⁻¹ dm ³	
				tinum	(IV) sulphate is:	
		NH ₃) ₄]SO ₄		N 41	C) [PtCl ₂ (NO ₂)(N	H ₃) ₄]SO ₄
(a) 1155	100	NH3)]SO4 `	9		D) [PtCl(NO ₃)(NI	
Match	column	I with colu	ımn II and pic	k the c	correct matching from	m the given codes:
		C	olumn I		Column II	
		A) Prop	anone	W)	Benzaldehyde	n 2 *
		B) C ₆ H ₅	СНО	X) A	Acetone	1 1
		C) Benz	ophenone	Y) I	Methyl ethyl ketone	
		D) Buta		Z) 1	Diphenyl ketone	
A) A-	X, B–W,	C-Z, D-Y		• \}	C) A-Y, B-W, C-	-Z, D-X
		C-X, D-W	•		D) A-Z, B-W, C-	-
			mpounds on h	vdrol	sis gives ethyne?	
A) Al ₄					C) CaC2	
B) Mg					D) Cu ₂ Cl ₂	*
		is more st	able than etho	rido io		
				XIUC IU	n because:	
			om overlans wit			
A) Lo	ne pair on	oxygen ato	om over <mark>laps wi</mark> t nzene			
A) Loi π-b	ne pair on onding sy	oxygen ato stem in ber	nzene	th the	delocalized	1
A) Lor π-b B) Ox	ne pair on onding sy ygen aton	n oxygen ato ystem in ber n is directly	nzene bonded with b	th the o	delocalized e ring in phenoxide ior	1 .
A) Lor π-b B) Ox C) The	ne pair on onding sy ygen aton e negative	n oxygen ato ystem in ben n is directly e charge is l	nzene bonded with b ocalized on oxy	th the c enzence gen a	delocalized ering in phenoxide ion com of phenoxide ion	1
A) Lor π-b B) Ox C) The D) The	ne pair on onding sy ygen aton e negative e negative	n oxygen ato ystem in ben is directly e charge is le charge is	nzene bonded with b ocalized on oxy delocalized on o	th the c enzence gen a oxyger	e ring in phenoxide ior com of phenoxide ion atom ethoxide ion	1
A) Lor π-b B) Ox C) The D) The	ne pair on onding sy ygen aton e negative e negative wo electr	oxygen ato ystem in bean is directly e charge is lee charge is consin an a	nzene bonded with bocalized on oxy delocalized on oxy tom can have	th the cenzence orgen at oxyger same	e ring in phenoxide ior com of phenoxide ion atom ethoxide ion set of four	1
A) Lor \pi-b B) Ox C) The D) The "No t identic	ne pair on onding sy ygen aton e negative e negative wo electr	oxygen ato ystem in bern is directly c charge is less charge is cons in an atom	nzene bonded with b ocalized on oxy delocalized on o	th the cenzence orgen at oxyger same	e ring in phenoxide ion com of phenoxide ion atom ethoxide ion set of four ent of:	1
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A) Lor π-b B) Oxy C) The Electrical Dynamics of the second of the s	ne pair on onding sy ygen atom e negative e negative wo electral quant fbau principle's exclusive x 10 ⁻² x 10 ⁻² olysis of the increase in mass ass numb a companistopes do none of the sacidic in sused in consideration.	oxygen atdystem in bern is directly e charge is le charge is le charge is rons in an atum number is le correct states ame atominumber is le correct states ame atominumber is le correct states and entire e of isotopson with Conot occur is the following in the pregnanture chromatography.	bonded with boordized on oxydelocalized oxydelocalized for the induction of sodium of the oxydelocalized for the induction of an elementation of blead oxydelocalized oxydelocalized for the oxygen oxydelocalized for the oxygen oxydelocalized for the oxygen ox	enzene ygen at oxyger same tateme oility v m chlo sotope asses at is de spectr s true ching	ering in phenoxide ion com of phenoxide ion atom ethoxide ion set of four ent of: C) Hund's rule D) None of these ralue 32 x 10 ⁻⁶ . What C) 1.0 x 10 ⁻² D) 3.0 x 10 ⁻² oride results in the ca C) Hydrogen D) Oxygen es of an element: etermined ometer	will be its solubility

Q.92	Which of the following functional groups does	not match correctly with its name?
	A) -NH ₂ Amino group	C) SH - : Mercapto group
	Secure Secure	C) SIT = Wereapto group
	B) $-C \equiv N \dots Cyano group$	D) C = O Carboxy group
Q.93	Ethene is treated with alkaline KMnO ₄ solutio	The major product obtained is:
****	A) 1,2-Ethanediol	O) Ethanal
	B) 1,2-Propanediol	C) Ethanal
Q.94		D) Propanal
Q.5.	The maximum number of electrons that can be is according to the formula:	e accommodated in an orbit
	A) 2n	△ 2.
	B) 2n ²	C) n ²
Q.95		D) 2n + 1
Q.33	The coordination number of Fe in K4[Fe(CN)6	
	A) 4	C) 3
0.00	B) 5	D) 6
Q.96	1-Butyne can be distinguished from 2-Butyne	
	A) Baeyer's reagent	C) Tollen's reagent
	B) Chlorine in CCl ₄	D) Bromine in CCl ₄
Q.97	Which of the following biomolecules acts as sp	ecific catalysts in biological reactions?
	A) Carbohydrates	C) Vitamins
	B) Lipids	D) Enzymes
Q.98	The decrease in the solubility of an electrolyte	
	electrolyte having common ion is called commo	on ion effect. Common ion
ž	effect has all of the following characteristic pro	operties EXCEPT:
	A) It is application of Le-Chatelier's principle	
	B) Its effect is always in the reverse direction	
(A. 100.000)	C) The solubility of second electrolyte is always	
*	greater than that of first one	
	D) The term electrolyte, acid or salt is used for co	ommon ion effect
Q.99	What will be the product (X) in the given react	tion?
	$C_2H_5OH + CH_3 - COOH \leftarrow \frac{\text{conc. H}_2SO_4}{\text{conc. H}_2SO_4}$	X+H-0
•		
	A) Diethyl ether	C) Ethyl acetate
	B) Methyl propyl ether	D) Butyl alcohol
Q.100	Which one of the followings has same number	
	A) 4.0g of O ₂	C) 4.0g of O
	B) 4.5g of H ₂ O	.D) ¼ moles of NaCl
Q.101	If Z is the number of protons and A is the num	
	then the number of neutrons in an atom is give	
	A) A + Z	C)A-Z
	B) Z – A	D) None of these
Q.102	What is pH of buffer in which concentrations	of salt and base are 0.1M and 0.01M
	respectively $(pK_b = 4.0)$?	
	A) 3.0	C) 9.0
	B) 2.0	D) 11.0
Q.103	An energy diagram is shown below:	
	Y activated c	omnley
	<u>\$</u>	
	<u> </u>	
	ĭ 1 / i	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	T Reactants	\ ↑
18. 2	*	\ \\ \alpha \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Products
	O Reaction coo	
	What is activation energy for the exothermic r	everse reaction?
	A) A	C) A + B
	B) A – B	D) B
	- x x (u	, , , , , , , , , , , , , , , , , , , ,

6.20	For the purificati	on of copper, impure coppe	r is made of :	
ř	A) Cathode	b 0.50	C) Solution	7
_0	B) Anode		D) Both A and B	
Q.105	Which among the	following is the correct ord	er of increasing ionic radius?	
3	A) Al' 3 $<$ Na $^{+1}$ $<$ N	Mg^{+2}	C) $Na^{+} < Mg^{+2} < Al^{+3}$	
0 101	B) $Al^{+3} < Mg^{+2} < 1$	Na ⁺¹	D) $Mg^{+2} < Al^{+3} < Na^{+1}$	
Q.106	Catalytic reduction	on of aldehydes and ketones	forms:	
	A) Alcohol		C) Alkene	
O 107	B) Carboxylic acid		D) Aldehyde	
Q.107	During the S _N 1 re	eaction, the fast reaction inv	olves:	
	A) Breakage of co	valent bond	C) Transition state	
O 108	B) Formation of ca	arbocation	D) Attack of a nucleophile	
2.100	Ethyl butyrate ha A) Banana	is Havour like:		¥
	B) Pineapple		C) Jasmine	
0.109	Which of the fell	with a same at 1 1	D) Orange	
2.103	A) Water	owing compounds has lowes		
**	B) Hydrogen sulph	nida"	C) Ethanol	
0.110	Mark the correct	statement	D) Acetic acid	
£.220	A) Diamond is an	statement:		
	B) Triclinic unit co	example of molecular solids		
	C) In NaCl structu	ell has the highest symmetry		
	D) A body centere	re, the number of formula uni d cubic structure has coording	ts per unit cell is four	
0.111	The rate laws for	Certain ongume activity	ation number 12	
	constant (k), with	Units of moldm ⁻³ s ¹ What i	reactions in your body has a specific sthe overall order of these reactions?	rate
v	A) 0	Thought 5 . What	C) 2	9
•	B) 1		D) Connot be detaring 1	î
Q.112	A researcher has	prepared a sample of 1-B	romonronano from 10g of 1 D	A.C.
	purification he h	ad	omopropane from log of 1-Propanol.	
	F	au maue 128 of profiler.	Which of the following is percentage	Alter viold?
	(-11 0 11 -	1, $O = 16$, $Br = 80$	Which of the following is percentage	Alter vield?
١.	A) 60.5%	au maue 128 of profiler.	c) 90.3%	Alter vield?
٠.	A) 60.5% B) 58.5%	1, O = 16, Br \approx 80)	C) 90.3% D) 50.6%	rield?
Q.113	A) 60.5% B) 58.5%	1, O = 16, Br \approx 80)	C) 90.3% D) 50.6%	rield?
Q.113	A) 60.5% B) 58.5% Among the follow	1, O = 16, Br = 80) ving species, identify the isos d [BF ₃ , H ₂ O ⁺]	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ ,	rield?
Q.113	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an	1, O = 16, Br = 80) ving species, identify the isos d [BF ₃ , H ₃ O ⁺]	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺]	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an	1, O = 16, Br = 80) ving species, identify the isos d [BF ₃ , H ₃ O ⁺] d [NO ⁻ ₃ , BF ₃]	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₄ O ⁺] and [NH ₂ , BE ₃]	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin	1, O = 16, Br = 80) ving species, identify the isos d [BF ₃ , H ₃ O ⁺] d [NO ⁻ ₃ , BF ₃] ng elements have the most so	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT:	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element	In the large of product. 1, $O = 16$, $Br = 80$) Find the isolated and $[BF_3, H_3O^+]$ In the large of product. In t	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₄ O ⁺] and [NH ₂ , BE ₃]	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc	1, O = 16, Br = 80) ving species, identify the isos id [BF ₃ , H ₃ O ⁺] id [NO ⁻ ₃ , BF ₃] ng elements have the most so Electronic Configuration [Ar]3d ¹ 4s ²	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT:	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe	in the first of product. 1, $O = 16$, $Br \approx 80$) Find the product. A considerable of the isomorphism of	C) 90.3% D) 50.6% Arructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states	rield?
	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc	in the first of product. 1, O = 16, Br = 80) In the second of $[BF_3, H_3O^+]$ In the second of $[NO^-3, BF_3]$ In the second of $[NO^-3, BF_3]$ In the second of $[Ar]3d^14s^2$ In the second of $[Ar]3d^54s^1$ [Ar] $[Ar]3d^54s^1$	C) 90.3% D) 50.6% Tructural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3	rield?
Q.114	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn	in the first of product. 1, $O = 16$, $Br \approx 80$) In the first of the isoset of BF_3 , H_3O^+] In the first of BF_3 , BF_3	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5	rield?
Q.114	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn	in the first of product. 1, $O = 16$, $Br \approx 80$) In the first of the isoset of BF_3 , H_3O^+] In the first of BF_3 , BF_3	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5	rield?
Q.114	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn	in the first of product. 1, $O = 16$, $Br \approx 80$) In the first of the isoset of BF_3 , H_3O^+] In the first of BF_3 , BF_3	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their:	rield?
Q.114 Q.115	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number	in the first of product. 1, $O = 16$, $Br = 80$) In the first of the isoset of the index of t	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number	vield?
Q.114 Q.115	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice	1, $O = 16$, $Br = 80$) ving species, identify the isosed [BF ₃ , H ₃ O ⁺] d [NO ⁻ ₃ , BF ₃] ng elements have the most st Electronic Configuration [Ar]3d ¹ 4s ² [Ar]3d ⁵ 4s ¹ [Ar]3d ⁵ 4s ² nodern periodic table are are sch shows the simplest whole	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number	vield?
Q.114 Q.115	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followir Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com	1, $O = 16$, $Br = 80$) ving species, identify the isosed [BF ₃ , H ₃ O ⁺] d [NO ⁻ ₃ , BF ₃] ng elements have the most st Electronic Configuration [Ar]3d ¹ 4s ² [Ar]3d ⁵ 4s ¹ [Ar]3d ⁵ 4s ² nodern periodic table are are sch shows the simplest whole	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number	vield?
Q.114 Q.115	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followir Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com A) Ionic formula	ving species, identify the isosold [BF ₃ , H ₃ O ⁺] d [NO ⁻ ₃ , BF ₃] ng elements have the most so Electronic Configuration [Ar]3d ¹ 4s ² [Ar]3d ⁵ 4s ¹ [Ar]3d ⁵ 4s ² nodern periodic table are are ch shows the simplest whole apound is:	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number D) Nucleon number number ratio for the atoms of different	vield?
Q.114 Q.115 Q.116	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com A) Ionic formula B) Structural form	ving species, identify the isos id $[BF_3, H_3O^+]$ d $[NO^3, BF_3]$ ng elements have the most st Electronic Configuration $[Ar]3d^14s^2$ $[Ar]3d^54s^1$ $[Ar]3d^54s^2$ nodern periodic table are are the shows the simplest whole apound is:	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number D) Nucleon number number ratio for the atoms of different C) Empirical formula	rield?
Q.114 Q.115 Q.116	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com A) Ionic formula B) Structural form The spontaneous	in the first of product. 1, $O = 16$, $Br = 80$) In the first of the isomorphism of th	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number D) Nucleon number number ratio for the atoms of different C) Empirical formula D) Molecular formula	vield?
Q.114 Q.115 Q.116	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com A) Ionic formula B) Structural form The spontaneous temperature is ca	in the first of product. 1, $O = 16$, $Br = 80$) In the first of the isomorphism of th	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number D) Nucleon number number ratio for the atoms of different C) Empirical formula D) Molecular formula r into vapour in an open container as of the following factors affect evaporations.	vield?
Q.114 Q.115 Q.116	A) 60.5% B) 58.5% Among the follow A) [NF ₃ , NO ⁻ ₃] an B) [NF ₃ , H ₃ O ⁺] an All of the followin Opt. Element A) Sc B) Fe C) Cr D) Mn Elements in the m A) Atomic mass B) Proton number The formula whice elements in a com A) Ionic formula B) Structural form The spontaneous	ving species, identify the isos $[AF_3, H_3O^+]$ $[AF_3]$	C) 90.3% D) 50.6% Structural pairs, NF ₃ , NO ₃ , BF ₃ , H ₃ O ⁺ , C) [NF ₃ , NH ₃] and [NO ₃ , H ₃ O ⁺] D) [NF ₃ , H ₃ O ⁺] and [NH ₃ , BF ₃] Table oxidation states EXCEPT: Most stable oxidation states +3 +3 +6 +5 ranged in ascending order of their: C) Mass number D) Nucleon number number ratio for the atoms of different C) Empirical formula	vield?



Q.118	The E ^o value of standard copper half-cell is +0.3 with SHE i.e. standard hydrogen electrode. In SHE is:	4V, which is measured when it is connected this case the half reaction taking place at
	A) $2H_{(aq)}^+ + 2e^- \to H_{2(g)}$	C) $2H_{(aq)}^{-} + 2e^{-} \rightarrow 2H_{(g)}^{-}$
	B) $H_{2(g)} \rightarrow 2H_{aq}^+ + 2e^-$	D) $H_{2(g)} \to 2H_{(g)} + 2e^{-}$
O 119	The compound which has cis-trans isomers is:	, ₂ (g) (g)
Q.117	A) 1,1-Dichloroethene	C) 1-Butene
	B) 1,2-Dichloroethene	D) 1-Pentene
0.120	$CH_3 - CH_2 - OH + PCl_5 \longrightarrow CH_3 - CH_2Cl + PCl_5 \longrightarrow CH_3 - CH_3 $	
0.5.5.5000.00	Formation of HCl is test for the presence of	in a compound:
	A) Alkyl group	C) Saturated alkyl group
	B) Hydroxyl group	D) Acid H ⁺ ion
Q.121	56g of N ₂ will at STP occupy the volume of:	
	A) $22.41 \mathrm{dm}^3$	C) 44.82cm ³
	B) 44:82dm ³	D) 2.241dm ³
Q.122	Which of the following have maximum bond an	
	A) NF ₃ B) NH ₃	C) BF ₃ D) H ₂ O
	PHYSIC	S
Q.123	The ratio of electric field intensity due to an infinit	e sheet of charge and two parallel oppositely
_	charged plates is (for the same value of charge density	ties):
	A) 1:2	C) 2:3
0 107	B) 2:1	D) 3:2
Q.124	When a charge -q enters perpendicularly to electric A) qE and along the field	C) qE and perpendicular to the field
	B) qE and opposite to the field	D) Zero
0.125	Capacitance of a parallel plate capacitor can be incre	
Q.110	A) Increasing the distance between the plates	
•	B) Increasing the thickness of the plates	
	C) Decreasing the thickness of the plates	
	D) Decreasing the distance between the plates	
Q.126	The process in which the molecules of the dielectric form dipoles is known as:	materials between the plates of the capacitor
* 1	A) Induction	C) Polarization
19	B) Rectification	D) Ionization
0.127	A fan is rotating at an angular speed of 300 revolut	ions per minute. What is its angular speed in
	radians per second?	
	A) 5π radian per second	C) 15π radian per second
0 400	B) 10π radian per second	D) 25π radian per second
Q.128	If a wheel of radius "r" turns through an angle of 30 on its rim moves is:	, then the distance through which any point
	OΠ 165 TIM MOVES IS.	π
	A) $\frac{\pi}{3} \times r$	C) $\frac{\pi}{30} \times r$ D) $\frac{\pi}{2} \times r$
	3	_ π
	B) $\frac{\pi}{6} \times r$	D) $\frac{1}{2} \times r$
	At constant conductance, the applied voltage across t	-
Q.12)	A) Inversely proportional to current	C) Not related to current
	B) Directly proportional to current	D) Exponentially related with current
Q.130	The energy consumed in 1 kilowatt electric heater in	30 seconds will be:
	A) $6 \times 10^{2} \text{J}$	C) 4.99×10′ J
	B) 9.8×10 ⁶ J	D) 3×10 ⁴ J '
Q.131	Field inside a solenoid is:	
£.	A) Directly proportional to its length	
14.	B) Directly proportional to current C) Inversely proportional to total number of turns	
	D) Inversely proportional to current	
	D) HITOIDOIS Properties	

Q.132	A current flow in a conductor from east to west. The	direction of the magnetic field at a point above
	the conductor is: A) Towards north	C) Towns I - south
	B) Towards east	C) Towards south
0.133	An α-particle is accelerated through a potential diff	D) Towards west
C	the α -particle is:	erence of to v. The gain in kinede energy of
	A) $2 \times 10^{-4} \text{ eV}$	C) 2×10 ⁴ eV
	B) 2×10^4 J	D) None of these
Q.134	A uniform wire of length 5 m is carrying a steady cu	rrent. The electric field inside is 0.2 V/m. The
	potential difference across the ends of the wire is?	
	A) 1 Volt	C) 0.1 Volt
0 125	B) 0.5 Volt	D) 5 Volt
Q.135	The distance between the plates of a parallel plate ca	pacitor is 2.0 mm and area of each plates is 2.0
	m ² . A potential difference of 1.0×10^{-4} V is applied ac A) 4×10^{4} F	ross the plates. Find the capacitance:
	B) 3.54×10 ⁹ F	C) 8.85×10 ⁻⁹ F D) 9.0×10 ⁻⁴ F
O.136	During the discharging of a capacitor at t=RC, the rem	D) 9.0×10 F
•	A) 63% of the total	C) 100%
	B) 37% of the total	D) 87% of the total
Q.137	Angular velocity is defined as:	D) or 70 of the total
`	A) The rate of change of linear velocity	
	B) The rate of change of angular displacement	
	C) The rate of change of angular acceleration	
	D) The rate of change of linear displacement	
Q.138	A stone tied to a string is rotated in a circle. If the str	ring is cut, the stone flies away from the circle
	because:	
	A) A centrifugal force acts on the stone	C) Of its inertia
0 100	B) A centripetal force acts on the stone	D) Reaction of the centripetal force
Q.139	Which of the following has a possitive temporature as	
	Which of the following has a negative temperature co	
	A) C	C) Fe
***	A) C B) Mn	C) Fe D) Ag
***	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb	C) Fe D) Ag
***	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb
Q.140	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient
Q.140	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient
Q.140	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because:
Q.140	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because:
Q.140 Q.141	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because:
Q.140 Q.141	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because:
Q.140 Q.141	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be:	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B.
Q.140 Q.141	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle
Q.140 Q.141 Q.142	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix
Q.140 Q.141 Q.142	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed
Q.140 Q.141 Q.142	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed
Q.140 Q.141 Q.142 Q.143	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm
Q.140 Q.141 Q.142 Q.143	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm
Q.140 Q.141 Q.142 Q.143	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm tween acceleration and displacement is:
Q.140 Q.141 Q.142 Q.143	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm tween acceleration and displacement is: C) a \infty \frac{1}{x^2}
Q.140 Q.141 Q.142 Q.143	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm tween acceleration and displacement is: C) a \infty \frac{1}{x^2}
Q.140 Q.141 Q.142 Q.143 Q.144	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be A) a \preceq x^2 B) a \preceq -x	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm atween acceleration and displacement is: C) $a \propto \frac{1}{x^2}$ D) $a \propto -\frac{1}{x^2}$
Q.140 Q.141 Q.142 Q.143 Q.144	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be A) a \preceq x^2 B) a \preceq -x	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm atween acceleration and displacement is: C) $a \propto \frac{1}{x^2}$ D) $a \propto -\frac{1}{x^2}$
Q.140 Q.141 Q.142 Q.143 Q.144	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be A) a \preceq x ² B) a \preceq -x A body is released from a height of 20 m. If friction is the ground will be (g = 10 m s ²):	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient affer no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm atween acceleration and displacement is: C) $a \propto \frac{1}{x^2}$ D) $a \propto -\frac{1}{x^2}$ is ignored then its velocity just before striking
Q.140 Q.141 Q.142 Q.143 Q.144	A) C B) Mn You are given three bulbs of 25, 40 and 60 watt. Whi A) 25 watt bulb B) 60 watt bulb The birds sitting on an overhead transmission line su A) Their bodies have high resistance B) Their feet are very good insulators C) There is no potential difference between their fe D) All of these A charged particle enters a magnetic field B with its The path of the particle will be: A) A straight line B) An ellipse A stationary wave is formed in a pipe which is open a and the wavelength of the wave is 20 cm, what is the A) 5 cm B) 10 cm For a simple harmonic oscillator, the relation be A) a \preceq x^2 B) a \preceq -x	C) Fe D) Ag ch of them has the lowest resistance? C) 40 watt bulb D) Information is insufficient after no harmful effect because: et initial velocity making an angle of 45° with B. C) A circle D) A helix at both ends. If two complete loops are formed length of the pipe? C) 15 cm D) 20 cm atween acceleration and displacement is: C) $a \propto \frac{1}{x^2}$ D) $a \propto -\frac{1}{x^2}$



Q.146	If we drop an object, its initial velocity is zero. How	far will it fall in time 't'?				
3	A) $9.8 t^2$	C) $0.49 t^2$				
	B) $4.9 t^2$	D) $98 t^2$				
Q.147	A vibrator of frequency 10 Hz produces waves of wa	,				
Q.11,	in the string is:	weight 0.23 in in string. The speed of a wave				
	A) $10 m s^{-1}$	C) 11				
	SEC. SEC.	C) $1 m s^{-1}$				
	B) $5 m s^{-1}$	D) $2.5 m s^{-1}$				
Q.148	Which of the following is uniform deceleration grap	h?				
	Y	Y				
	·	1				
		\				
	A) t					
	V	C) t				
	_					
	B)	\vec{D}) t				
Q.149	When an electron in hydrogen atom jumps from se	cond-orbit to first orbit then energy of photon				
-	emitted is:	y				
	A) 13.6 eV	C) 3.4 eV				
	B) 10.2 eV	D) 10.2 V				
O 150						
Q.130	In which process the entire of heat supplied to the	gas in converted to the internal energy of the				
•	gas?					
	A) Isochoric process	C) Isothermal process				
	B) Isobaric process	D) Adiabatic process				
Q.151	For skin cancer is used:					
	A) Phosphorus-32	C) Iodine-131				
•	B) Strontium-90	D) May A or B				
O.152		of & during the phenomenon radioactivity?				
-	Which of the following effect is observed due to emission of β during the phenomenon radioactivity? A) A increases by 1 and Z remain same C) Z decreases by 1 and A remains same					
	B) Z increases by 1 and A remains same	C) Z decreases by 1 and A remains same				
O 152		D) A decreases by 1 and Z remains same				
Q.155	If we take away south-pole of a bar magnet from a co	oil then the end of coil facing south-pole act as:				
	A) A north pole	C) A south pole				
	B) May be north or south	D) No pole will be induced				
Q.154	A ball is released from certain height, falls under the	ne action of gravity. The distance travelled by				
	ball after 8 s will be:	The state of the s				
	A) 64 m	C) 434.5 m				
	B) 98 m	D) 313.6 m				
0.155	Which one is not the effect of low-level radiation?	<i>D)</i> 513.0 m				
Q.100	A) Loss of hair	ÖLTI:				
		C) Ulceration				
0.456	B) Eye cataracts	D) Drop in white blood cells				
Q.156	What is the atomic number and mass number of hel					
	A) 4, 2	C) 4, 4				
	B) 2, 4	D) 3 4				
Q.157	Work done on a body is said to be half of maximu	m if the angle between force and				
	displacement covered by it is:	m if the angle between force acting on it and				
	A) 9°	C) 450				
		C) 45°				
0.150	B) 90°	D) 60°				
Q.128	Circuit used to convert pulsating D.C into pure D.C is	called:				
• 11	A) Rectiner	C) Inverter				
le Du	B) Filter	D) Converter				
Q.159	The height of projectile will be equal to one-fourth of projectile in	fits horizontal range if the are				
the Eurol	of projectile is:	and the section of projection				
194	A) 45°	C) 60°				
	B) 30°	C) 60°				



Q.160	At what angle of projection of a projectile the range	becomes $\frac{\sqrt{3}}{2}$ times of its maximum value?						
	A) 15°	C) 30°						
	B) 20°	D) 40°						
Q.161	A source initially contains No nuclei of a radioactive n	nuclide. How many of these nuclei have decayed						
	after a time interval of six half-lives?							
	A) $\frac{N_o}{16}$	C) $\frac{N_o}{32}$ D) $\frac{63N_o}{64}$						
	16	32						
	B) $\frac{31N_{\circ}}{32}$	D) 63N _o						
	32	V4						
Q.162	A half-wave rectifier is being used to rectify an alternating voltage of frequency 55 Hz. The number of pulses of rectified current obtained in two seconds are:							
	A) 55	C) 110						
0.460	B) 25	D) 220						
Q.163	Which one of the following properties is not exhibite							
100	A) Interference	C) Diffraction						
0.164	B) Reflection	D) Polarization						
Q.104		otons:						
	A) X-rays B) Ultraviolet	C) Gamma rays						
O 165		D) Beta rays						
Q.103	The basic working principle of an A.C generator is:	Ý.						
	A) To convert light energy into electrical energy B) To convert electrical energy into mechanical energy							
	C) Mutual induction	ergy						
	D) Faraday's law of electromagnetic induction							
0.166	The net force on a uniformly accelerated body is:							
Q.200	A) Increasing	C) Zero						
	B) Decreasing	D) Constant						
0.167	An ideal step-down transformer is the one which:	D) Constant						
•	A) Increases voltage level	C) Decreases power level						
	B) increases current level	D) Decreases frequency level						
Q.168	B) Increases current level Which photon carries the least energy?	D) Decreases frequency level						
Q.168	Which photon carries the least energy? A) Blue							
Q.168	Which photon carries the least energy?	C) Red						
	Which photon carries the least energy? A) Blue B) Violet	C) Red D) Green						
	Which photon carries the least energy? A) Blue	C) Red D) Green N m ⁻² . The work done is:						
Q.169	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ N	C) Red D) Green						
Q.169	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ I A) 5.0 erg B) 500 kJ	C) Red D) Green N m ⁻² . The work done is: C) 50 kJ D) 10.0 J						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10⁵ I A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an	C) Red D) Green N m ⁻² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to:						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ I A) 5.0 erg B) 500 kJ	C) Red D) Green N m ⁻² . The work done is: C) 50 kJ D) 10.0 J						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ I A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ P A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ P A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ I A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$						
Q.169 Q.170	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m ³ at constant pressure of 10 ⁵ I A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s ⁻¹ such must be the power developed in this case? A) 2.7 W	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10⁵ MA) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10^5 M A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s¹¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have:	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10⁵ MA) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10^5 M A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent an A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s¹¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have:	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10^5 I. A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent and A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have: A) Node at one end and Anti-node at other	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W						
Q.169 Q.170 Q.171	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 105 M A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent and A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have: A) Node at one end and Anti-node at other B) Anti-nodes at both ends C) Nodes at both ends	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W						
Q.169 Q.170 Q.171 Q.172	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10^5 P. A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent and A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have: A) Node at one end and Anti-node at other B) Anti-nodes at both ends C) Nodes at both ends D) Can²t be predicted	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W D) 300 W						
Q.169 Q.170 Q.171 Q.172	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10⁵ IA) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent and A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have: A) Node at one end and Anti-node at other B) Anti-nodes at both ends C) Nodes at both ends D) Can't be predicted The slope of distance — time graph for a moving book	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W D) 300 W						
Q.169 Q.170 Q.171 Q.172	Which photon carries the least energy? A) Blue B) Violet A gas expands by 0.5 m³ at constant pressure of 10^5 P. A) 5.0 erg B) 500 kJ In stationary wave, the distance between adjacent and A) $\frac{\lambda}{2}$ B) λ An object is moving with a velocity of 40 m s⁻¹ such must be the power developed in this case? A) 2.7 W B) 5.8 W In a pipe open at both ends we have: A) Node at one end and Anti-node at other B) Anti-nodes at both ends C) Nodes at both ends D) Can²t be predicted	C) Red D) Green N m ² . The work done is: C) 50 kJ D) 10.0 J ntinodes is equal to: C) $\frac{3\lambda}{4}$ D) $\frac{\lambda}{4}$ that a constant force acts on it of 7.5 N. What C) 150 W D) 300 W						



0.174	1 Wh is equal to:	S.	19		A.	
Q.2.	A) $3.6 \times 10^8 \text{J}$		2 1	C) 3.6 kJ	The state of the s	•
	B) 3.6 MJ		, a	D) $3.6 \times 10^3 \text{ J}$		1.5
0.175	1st law of thermody	namics in case	of isobaric prod	,	ACTION OF	1
Q.175	A) $C_p \Delta T = P \Delta V$		or isobatic pro-	C) $C_V \Delta T = C_p \Delta T +$	and the second	
	B) $C_p \Delta T = C_v \Delta T +$	ΡΔV		D) $C_p \Delta T = C_v \Delta T$	- PΔV	79
Q.176	According to Lenz's	law the directi	on of induced cur	rent is such that it:		7
-	A) Decreases flux in B) Opposes the cause	f it is increasi	ng	C) Increases flux (D) All of these	if it is decreasing	3
			ENGLIS			
Direc	tions: Read each	sentence and	determine the	meaning of the word	l using cross sen	tence
~	clues or you	ır prior knov	vledge.	- l 4- consider a(n)	of his ne	w dress
Q.1 77		ative feedba	ck, the owner i	nad to consider a(n)	or ms no	W GICSS
	code.			C) Inspiration	i de la companya de	F 2
80 23	A) Isolation			Control of the Contro	7	
	B) Interference			D) Repeal	ag it is used in	context
Direct	tion: Choose the opt	ion of the be	st meaning for	the underlined word	as It is used in t	одисли.
Q.178	There was a comm	<u>otion</u> among	the sheep whe	n the dog broke loos	e Irom its icasii.	
	A) Armistice			C) Hullabaloo		,
	B) Goodwill			D) Tranquility	in the conton	
Direct	ions: Choose the mo	ost suitable a	nswer that ider	tifies the homophon	es in the sentend	je.
Q.179		ed edge or the	edryer	kept overheating an	a caused me to t	Jurn my
	finger.			, ·		3.0
	A) Hair			C) Here	¥	
	B) Hare			D) Air	N 6 6	
Q.180	Find out the correct	ct meaning of	f underlined idi	omatic expression.	4 4 7	· 11
		at me if you ca	n't solve this pr	oblem. I've tried to he	alp you as well as	s I could.
	A) Blame			C) Take sides	8	20
	B) Fight		*	D) Gossip		92
Directi	ion: Choose the wor	d that is mos	st nearly <u>SIMII</u>	<u>LAR</u> in the meaning	of the following	word.
	INIQUITY			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		¥
	A) Inequality	10		C)Wickedness		
	B) Injustice			D) Efficiency		
Directi	ons: Choose the wo	rd that is mo	st OPPOSITE	in the meaning of th	e following wor	d.
	FECKLESS				2	
	A) Useless			C)Dauntless		
	B) Careless			D) Expedient		
Directi	ons: Choose the cor	rect spelling	:			*
Q.183			9		390	
	A) Counterfeit			C) Counterfyit	*	
	B) Counterfaite			D) Conterfeit		
	A					
Directio	ons: Fill in the blan	k with appro	priate option:			
Q.184	For a developed co a liability.	untry, more	people	greater asset but f	or developing c	ountries
0 -	A) means	it is		C) means	they are	
1	B) mean it	tis		D) mean		10
∩ 195 Å	More than enviling	g my mothe	r wants my fat	her to serenade her	by singing her	favorite
Q.103	Man allytimi	sivercary din	ner			
	songtheir and	HVCI SALY WILL	110×4 +	C) to		
	A) on			D) for		4
	B) at					
	l've been considerin	ıgth	e sport of hors			
1	A) taking after			C) taking to		
1	R) taking un		Y .	D) taking down		



YOUR STEP TOWARDS A BRIGHTER FUTURE!

Identify the underlined word or phrase that contains a mistake and needs to be **Directions:** changed to make the sentence correct. Q.187 The shy student slowly rose her hand up just high enough so that her teacher could see she knew the answer. Q.188 (A) If they know the cause of the problem, /(B) they might be able to figure on /(C)how to prevent/(D) it happening again. Directions: Pick the correct option. Q.189 A) They're paying us a visit, because they haven't seen us in a while B) They're paying us a visit because they haven't seen us in a while. C) They're paying us a visit; because they haven't seen us in a while. D) They're paying us a visit: because they haven't seen us in a while. Q.190 A) The people who lost theirs dogs stayed in their yards, hoping they would return. B) The people who lost their dogs stayed in their yards, hoping the dogs would return. C) The people whom lost their dogs stayed in their's yards, hoping they would return. D) The people whose lost their dogs stayed in them yards, hoping the dogs would return. Q.191 A) Educated at Aitchison and then at GC Lahore, it was surprising that Furgan could not get into a decent business school. B) Educated at Aitchison and then at GC Lahore it was surprising that Furgan could not get into a decent business school. C) Educated at Aitchison and then at gC Lahore, it was surprising that Furqan could not get into a decent business school. D) Educated at Aitchison and then at GC Lahore, Furgan surprisingly could not get into a decent business school. Q.192 A) The capital city of the United States Is not New York, and is it Los Angeles. B) The capital city of the United States Is not New York, nor is it Los Angeles. C) The capital city of the United States Is not New York, yet is it Los Angeles. D) The capital city of the United States Is not New York, or is it Los Angeles. Directions: Read the passage and answer the questions below. Ah! whatever could be said was said. All held him guilty, even his own mother who claimed to understand him the best. All had betrayed him in his hour of need. Yet, there he was, still with a sparkling hope and knew that the truth must prevail. In the cold, dark and damp cell he never for a moment lost faith in God and goodness and was waiting anxiously for an angel to come, plead non guilty for him and free him of his miseries. Q.193 Three of the following statements indicate that he had a sparkling hope. Which statement does not? A) He had never lost faith in God B) He was sure there was goodness C) He could have evidence in his favour D) He knew that truth must prevail Q.194 Whatever others said about him, he C) Never lost faith in goodness A) Betrayed no one D) Raised his voice against injustice B) Thought over the problem' LOGICAL REASONING O.195 Tanveer has more fun than Jahanzaib. Farukh has less fun than Jahanzaib. Tanveer has more fun than Farukh. If the first two sentences are true, the third is C) Uncertain A) False B) True D) Unresolved O.196 BRAIN' is related to 'MEMORY' similarly 'BANK' is related to

C) Money

D) None of the above

A) Diagram

B) Nest

Q.197 Statement

- I. All fruits are textbooks.
- II. All pens are textbooks.
- III. All textbooks are rains.

Conclusion

- I. All fruits are rains.
- II. All pens are rains.
- III. Some rains are textbooks.
- A) Only I followsB) Only II follows

- C) Only III follows
- D) All follow
- Q.198 Statement: Will the newly appointed principal maintain discipline?

Arguments:

- I. Yes, he has to; otherwise his existence as principal will be in danger.
- II. No, this principal had discipline issues in his earlier postings.
- A) Only argument I is strong.

C) Either I or II is strong.

B) Only argument II is strong.

- D) Both I and II are strong.
- Q.199 Statements: $N \ge O \ge P = Q > R$

Conclusions:

- I. N > R
- II. R = N
- A) Only conclusion I is true
- B) Only conclusion II is true

- C) Either conclusion I or II is true
- D) Both conclusions I and II are true
- Q.200 Statement: It is not good to interfere in anyone's private life.

Conclusions:

- I. Encroachment in anyone's personal matter is bad.
- II. Professional detail does not come under private life.
- A) Only conclusion I is valid.

C) Either conclusion I or II is valid.

B) Only conclusion II is valid.

D) Neither conclusion I nor II is valid.